

Application No.: 10/024,385
Amendment Dated: October 3, 2003
Reply to Office Action of: July 3, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A molding composition, comprising:

- I. from 0.1 to less than 5 parts by weight of a polyamine-polyamide graft copolymer which is prepared using the following monomers:
 - a) from 0.5 to 25% by weight, based on the graft copolymer, of a branched polyamine having at least 4 nitrogen atoms and a number-average molar mass M_n of at least 146 g/mol, and
 - b) polyamide-forming monomers selected from the group consisting of lactams, ω -aminocarboxylic acids, and equimolar combinations of diamine and dicarboxylic acid; and
- II. from more than 95 to 99.9 parts by weight of a thermoplastic polyester, where the total of the parts by weight of I and II is 100;

wherein said branched polyamine is selected from the group consisting of branched polyethyleneimines having the following distribution of amino groups: from 25 to 46% of primary amino groups, from 30 to 45 % of secondary amino groups, and from 16 to 40% of tertiary amino groups.

2. (Original) The molding composition as claimed in Claim 1, wherein the thermoplastic polyester has been selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate, polybutylene terephthalate, polyethylene 2,6-naphthalate, polypropylene 2,6-naphthalate and polybutylene 2,6-naphthalate.

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3. (Original) The molding composition as claimed in Claim 1, wherein the polyamine-polyamide graft copolymer is prepared using from 1 to 20% by weight of the polyamine.

4. (Original) The molding composition as claimed in Claim 1, wherein the polyamine-polyamide graft copolymer is prepared using from 1.5 to 16% by weight of the polyamine.

5. (Original) The molding composition as claimed in Claim 1, wherein the polyamine contains at least 8 nitrogen atoms.

6. (Original) The molding composition as claimed in Claim 1, wherein the polyamine contains at least 11 nitrogen atoms.

7. (Original) The molding composition as claimed in Claim 1, wherein the polyamine has a number-average molar mass M_n of at least 500 g/mol.

8. (Original) The molding composition as claimed in Claim 1, wherein the polyamine has a number-average molar mass M_n of at least 800 g/mol.

9. (Original) The molding composition as claimed in Claim 1, wherein the concentration of amino groups in the graft copolymer is in the range from 100 to 2500

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mmol/kg.

10. (Original) The molding composition as claimed in Claim 1, wherein the molding composition comprises, besides components I and II, up to a total of 60% by weight of additives.

11. (Currently Amended) An injection molding composition ~~comprising~~ consisting essentially of:

- I. from 0.1 to 20 parts by weight of a polyamine-polyamide graft copolymer which is prepared using the following monomers:
 - a) from 0.5 to 25% by weight, based on the graft copolymer, of a branched polyamine having at least 4 nitrogen atoms and a number-average molar mass M_n of at least 146 g/mol, and
 - b) polyamide-forming monomers selected from the group consisting of lactams, ω -aminocarboxylic acids, and equimolar combinations of diamine and dicarboxylic acid; and
- II. from 80 to 99.9 parts by weight of a thermoplastic polyester, where the total of the parts by weight of I and II is 100;

wherein said branched polyamine is selected from the group consisting of branched polyethyleneimines having the following distribution of amino groups: from 25 to 46% of primary amino groups, from 30 to 45 % of secondary amino groups, and from 16 to 40% of tertiary amino groups.

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12. (Original) The injection molding composition as claimed in Claim 11, wherein the thermoplastic polyester has been selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate, polybutylene terephthalate, polyethylene 2,6-naphthalate, polypropylene 2,6-naphthalate and polybutylene 2,6-naphthalate.

13.(Original) The injection molding composition as claimed in Claim 11, wherein the polyamine-polyamide graft copolymer is prepared using from 1 to 20% by weight of the polyamine.

14. (Original) The injection molding composition as claimed in Claim 11, wherein the polyamine-polyamide graft copolymer is prepared using from 1.5 to 16% by weight of the polyamine.

15.(Original) The injection molding composition as claimed in Claim 11, wherein the polyamine contains at least 8 nitrogen atoms.

16.(Original) The injection molding composition as claimed in Claim 11, wherein the polyamine contains at least 11 nitrogen atoms.

17. (Original) The injection molding composition as claimed in Claim 11, wherein the polyamine has a number-average molar mass M_n of at least 500 g/mol.

18.(Original) The injection molding composition as claimed in Claim 11, wherein the polyamine has a number-average molar mass M_n of at least 800 g/mol.

19. (Original) The injection molding composition as claimed in Claim 11, wherein the concentration of amino groups in the graft copolymer is in the range from 100 to 2500 mmol/kg.

20. (Original) The injection molding composition as claimed in Claim 11, wherein the injection molding composition comprises, besides components I and II, up to a total of 60% by weight of additives.

21. (Currently Amended) A molding composition ~~comprising~~ consisting essentially of:

- A. from 40 to 99.5% by weight of a mixture made from
 - I. from 0.1 to 20 parts by weight of a polyamine-polyamide graft copolymer which is prepared using the following monomers:
 - a) from 0.5 to 25% by weight, based on the graft copolymer, of a branched polyamine having at least 4 nitrogen atoms and a number-average molar mass M_n of at least 146 g/mol, and
 - b) polyamide-forming monomers selected from the group consisting of lactams, ω -aminocarboxylic acids, and equimolar combinations of diamine and dicarboxylic acid, and

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II. from 80 to 99.9 parts by weight of a thermoplastic polyester, where the total of the parts by weight of I and II is 100; and

B. from 0.5 to 60% by weight of at least one particulate, laminar or fibrous additive selected from the group consisting of fillers, pigments, reinforcing materials, additives which give the molding composition antistatic properties or electrical conductivity, nucleating agents, and particulate flame retardants;

wherein an amount of each of A and B is based on the total sum of A and B;

wherein said branched polyamine is selected from the group consisting of branched polyethyleneimines having the following distribution of amino groups: from 25 to 46% of primary amino groups, from 30 to 45 % of secondary amino groups, and from 16 to 40% of tertiary amino groups.

22.(Original) The molding composition as claimed in Claim 21, wherein the thermoplastic polyester has been selected from the group consisting of polyethylene terephthalate, polypropylene terephthalate, polybutylene terephthalate, polyethylene 2,6-naphthalate, polypropylene 2,6-naphthalate and polybutylene 2,6-naphthalate.

23. (Original) The molding composition as claimed in Claim 21, wherein the polyamine-polyamide graft copolymer is prepared using from 1 to 20% by weight of the polyamine.

24.(Original) The molding composition as claimed in Claim 21, wherein the

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polyamine-polyamide graft copolymer is prepared using from 1.5 to 16% by weight of the polyamine.

25. (Original) The molding composition as claimed in Claim 21, wherein the polyamine contains at least 8 nitrogen atoms.

26. (Original) The molding composition as claimed in Claim 21, wherein the polyamine contains at least 11 nitrogen atoms.

27. (Original) The molding composition as claimed in Claim 21, wherein the polyamine has a number-average molar mass M_n of at least 500 g/mol.

28.(Original) The molding composition as claimed in Claim 21, wherein the polyamine has a number-average molar mass M_n of at least 800 g/mol.

29.(Original) The molding composition as claimed in Claim 21, wherein the concentration of amino groups in the graft copolymer is in the range from 100 to 2500 mmol/kg.

30. (Currently Amended) The molding composition as claimed in Claim 21, wherein the molding composition comprises, besides components I and II, up to a total of 60% by weight of additives other than component B.

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31.(Original) A molding produced using the molding composition of Claim 1.

32.(Original) A molding that is a composite having two or more layers and comprising one or more layers made from the molding composition of Claim 1.

33.(Original) A molding consisting of the molding composition of Claim 1.

34. (Original) A molding produced using the molding composition of Claim 11.

35. (Original) A molding that is a composite having two or more layers and comprising one or more layers made from the injection molding composition of Claim 11.

36. (Original) A molding consisting of the injection molding composition of Claim 11.

37. (Original) A molding produced using the molding composition of Claim 21.

38.(Original) A molding that is a composite having two or more layers and comprising one or more layers made from the molding composition of Claim 21.

39.(Original) A molding consisting of the molding composition of Claim 21.

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40.(Currently Amended) A method of making a molding composition as claimed in Claim 1, the method comprising adding a said polyamine-polyamide graft copolymer to a said polyester; ~~and forming~~ , to obtain the molding composition of Claim 1.

41. (Currently Amended) A method of making an injection molding composition as claimed in Claim 11, the method comprising adding a said polyamine-polyamide graft copolymer to a said polyester; ~~and forming~~ , to obtain the injection molding composition of Claim 11.

42.(Currently Amended) A method of making a molding composition as claimed in Claim 21, the method comprising adding a said polyamine-polyamide graft copolymer to a said polyester; ~~and forming~~ , to obtain the molding composition of Claim 21.

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BASIS FOR THE AMENDMENT

Claims 1, 11 and 21 have been amended as supported at page 5, 2nd paragraph of the specification. Claim 30 has been amended as supported at page 8, last paragraph to page 9, first paragraph. Claims 40-42 have been amended as supported by these claims as originally filed.

No new matter is believed to have been added by entry of this amendment. Entry and favorable reconsideration are respectfully requested.

Upon entry of this amendment Claims 1-42 will now be active in this application.

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INTERVIEW SUMMARY

Applicants wish to thank Examiner Woodward for her helpful and courteous discussion with Applicants' Representative on August 12, 2003. It was discussed how the claims are distinguished over the prior art of record.